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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JUL 20	Powerful new interactive analysis and visualization software, STN AnaVist, now available
NEWS	4	AUG 11	STN AnaVist workshops to be held in North America
NEWS	5	AUG 30	CA/CAplus -Increased access to 19th century research documents
NEWS	6	AUG 30	CASREACT - Enhanced with displayable reaction conditions
NEWS	7	SEP 09	ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS	8	SEP 22	MATHDI to be removed from STN

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 14:35:55 ON 27 SEP 2005

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 14:36:07 ON 27 SEP 2005
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FILE COVERS 1907 - 27 Sep 2005 VOL 143 ISS 14
FILE LAST UPDATED: 26 Sep 2005 (20050926/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s ep 0634383/pn
L1            1 EP 0634383/PN
                (EP634383/PN)

=> d l1 iall
```

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:389806 CAPLUS
DOCUMENT NUMBER: 122:160066
ENTRY DATE: Entered STN: 04 Mar 1995
TITLE: Process for the addition of hydrogen fluoride to haloalkenes
INVENTOR(S): Franz, Raimund; Siegemund, Guenter
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
INT. PATENT CLASSIF.:
MAIN: C07C017-087
SECONDARY: C07C019-08; C07C019-12
CLASSIFICATION: 23-3 (Aliphatic Compounds)
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 634383	A1	19950118	EP 1994-110535	19940706 <--
EP 634383	B1	19971105		
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE				
DE 4323264	A1	19950119	DE 1993-4323264	19930712
DE 4339539	A1	19950524	DE 1993-4339539	19931119
ES 2111211	T3	19980301	ES 1994-110535	19940706
CA 2127732	AA	19950113	CA 1994-2127732	19940711
CA 2127732	C	20041207		
JP 07149678	A2	19950613	JP 1994-158956	19940711
JP 3592367	B2	20041124		
US 5847245	A	19981208	US 1996-723462	19961009
US 5969199	A	19991019	US 1998-93534	19980608
PRIORITY APPLN. INFO.:			DE 1993-4323264 A	19930712
			DE 1993-4339539 A	19931119
			US 1994-271838 B1	19940707
			US 1995-480507 B1	19950607
			US 1996-723462 A1	19961009

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 634383	ICM	C07C017-087
	ICS	C07C019-08; C07C019-12
EP 634383	ECLA	C07C017/087; C07C017/087+19/12; C07C017/087+19/08 <--

DE 4339539	ECLA	C07C017/087; C07C017/087+19/08; C07C017/087+19/12
US 5847245	NCL	570/175.000; 570/164.000; 570/165.000
	ECLA	C07C017/087; C07C017/087+19/08; C07C017/087+19/12
US 5969199	NCL	570/175.000; 570/164.000; 570/165.000
	ECLA	C07C017/087; C07C017/087+19/08; C07C017/087+19/12

OTHER SOURCE(S): CASREACT 122:160066; MARPAT 122:160066

ABSTRACT:
The title process comprises treating R1CF:R2R3 [R1 = F, CF3, CF2R4; R2 = H, halo, CF3; R3 = H, F, CF3, (halo)alkyl; R4 = (halo)alkyl] with B.nHF (B = N-containing organic base; n is a whole or fractional number ≤4).

SUPPL. TERM: hydrogen fluoride addn haloalkene

INDEX TERM: 75-88-7P, 1,1,1-Trifluorochloroethane 354-33-6P, Pentafluoroethane 431-89-0P, 1,1,1,2,3,3,3-Heptafluoropropane 2837-89-0P, 1,1,1,2-Tetrafluorochloroethane 2924-29-0P, 1,1,1,2,2,4,4,4-Octafluorobutane 30320-28-6P 71127-00-9P, 2-Trifluoromethyl-1,1,1,3,3,4,4,4-Octafluorobutane
ROLE: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process for the addition of hydrogen fluoride to haloalkenes)

INDEX TERM: 79-38-9 116-14-3, Tetrafluoroethene, reactions 116-15-4 359-10-4, 1,1-Difluoro-2-chloroethene 359-11-5, Trifluoroethene 760-42-9, 1,1,1,2,4,4,4-Heptafluoro-2-butene 1584-03-8, Perfluoro-2-methyl-2-pentene 41004-33-5, Perfluoro-2-methyl-2-butene 161293-36-3 161293-37-4 161293-38-5 161293-39-6 161293-40-9
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(process for the addition of hydrogen fluoride to haloalkenes)

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NEWS 4	AUG 11	STN AnaVist workshops to be held in North America
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NEWS 6	AUG 30	CASREACT - Enhanced with displayable reaction conditions
NEWS 7	SEP 09	ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 8	SEP 22	MATHDI to be removed from STN

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 10:58:53 ON 27 SEP 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:59:05 ON 27 SEP 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 SEP 2005 HIGHEST RN 863963-04-6
DICTIONARY FILE UPDATES: 26 SEP 2005 HIGHEST RN 863963-04-6

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

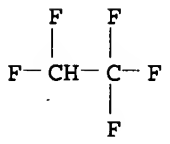
```
=> e pentafluoroethane/cn
E1            1     PENTAFLUORODISILANE/CN
E2            1     PENTAFLUORODISILANYL/CN
E3            1 --> PENTAFLUOROETHANE/CN
E4            1     PENTAFLUOROETHANE HOMOPOLYMER/CN
E5            1     PENTAFLUOROETHANE ION(1+)/CN
E6            1     PENTAFLUOROETHANE SULFONIC ACID ANHYDRIDE/CN
E7            1     PENTAFLUOROETHANE-1,1,1,2-TETRAFLUOROETHANE-1,1,1-TRIFLUOROE
                    THANE MIXTURE/CN
E8            1     PENTAFLUOROETHANE-D/CN
E9            1     PENTAFLUOROETHANE-T/CN
E10           1     PENTAFLUOROETHANESULFENYL CHLORIDE/CN
E11           1     PENTAFLUOROETHANESULFONAMIDE/CN
E12           1     PENTAFLUOROETHANESULFONAMIDE SODIUM SALT/CN

=> s e3
L1            1 PENTAFLUOROETHANE/CN

=> d l1

L1   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   354-33-6  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Ethane, pentafluoro- (6CI, 7CI, 8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   1,1,1,2,2-Pentafluoroethane
CN   1,1,2,2,2-Pentafluoroethane
CN   Ecolo Ace 125
CN   F 125
CN   FC 125
CN   Fron 125
CN   HCFC 125
CN   HFA 125
CN   HFC 125
CN   Khladon 125
CN   Pentafluoroethane
CN   R 125
MF   C2 H F5
CI   COM
```

LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1945 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1947 REFERENCES IN FILE CAPLUS (1907 TO DATE)
40 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

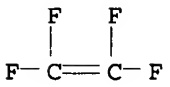
```
=> e tetrafluoroethylene/cn
E1            1     TETRAFLUOROETHENE-VINYL FLUORIDE POLYMER/CN
E2            1     TETRAFLUOROETHENE-VINYLIDENE FLUORIDE COPOLYMER/CN
E3            1 --> TETRAFLUOROETHYLENE/CN
E4            1     TETRAFLUOROETHYLENE ANION RADICAL/CN
E5            1     TETRAFLUOROETHYLENE DIMER/CN
E6            1     TETRAFLUOROETHYLENE HEXAMER/CN
E7            1     TETRAFLUOROETHYLENE HOMOPOLYMER/CN
E8            1     TETRAFLUOROETHYLENE ION(1+)/CN
E9            1     TETRAFLUOROETHYLENE OXIDE/CN
E10           1     TETRAFLUOROETHYLENE OXIDE HOMOPOLYMER/CN
E11           1     TETRAFLUOROETHYLENE OXIDE POLYMER/CN
E12           1     TETRAFLUOROETHYLENE PENTAMER/CN

=> s e3
L2            1 TETRAFLUOROETHYLENE/CN

=> d l2

L2   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   116-14-3  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Ethene, tetrafluoro- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Ethylene, tetrafluoro- (6CI, 8CI)
OTHER NAMES:
CN   1,1,2,2-Tetrafluoroethylene
CN   Ethylene tetrafluoride
CN   Perfluoroethene
CN   Perfluoroethylene
CN   R 1114
CN   Tetrafluoroethene
CN   Tetrafluoroethylene
CN   TFE
FS   3D CONCORD
DR   9014-83-9
```

MF C2 F4
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
    BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
    CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*,
    EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*,
    HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA,
    PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL,
    VTB
      (*File contains numerically searchable property data)
    Other Sources: DSL**, EINECS**, TSCA**
      (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

          5467 REFERENCES IN FILE CA (1907 TO DATE)
          1763 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
          5473 REFERENCES IN FILE CAPLUS (1907 TO DATE)
             3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

```
=> e triethylamine/cn
E1            1     TRIETHYLALUMINUM-TRIETHYLAMINE COMPLEX/CN
E2            1     TRIETHYLALUMINUM-WATER COPOLYMER/CN
E3            1 --> TRIETHYLAMINE/CN
E4            1     TRIETHYLAMINE (2,6-DICHLOROBENZYL)DITHIOCARBAMATE/CN
E5            1     TRIETHYLAMINE 1:1 COMPLEX WITH DICHLOROETHYLGERMANE/CN
E6            1     TRIETHYLAMINE 1:1 COMPLEX WITH DICHLOROMETHYLGERMANE/CN
E7            1     TRIETHYLAMINE 1:1 COMPLEX WITH DICHLOROPHENYLGERMANE/CN
E8            1     TRIETHYLAMINE 2,4,6-TRINITROPHENOLATE/CN
E9            1     TRIETHYLAMINE 2,4-DINITRONAPHTHOLATE/CN
E10           1     TRIETHYLAMINE 2,4-DINITROPHENOLATE/CN
E11           1     TRIETHYLAMINE 2,6-DICHLOROBENZOATE/CN
E12           1     TRIETHYLAMINE 3,5-DINITROBENZOATE/CN

=> s e3
L3            1 TRIETHYLAMINE/CN

=> d l3


L3   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   121-44-8  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Ethanamine, N,N-diethyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Triethylamine (7CI, 8CI)
OTHER NAMES:
CN   (Diethylamino)ethane
CN   N,N-Diethylethanamine
CN   TEA
FS   3D CONCORD
DR   750564-56-8, 449752-61-8, 168277-99-4, 172227-74-6, 144514-14-7
MF   C6 H15 N
CI   COM
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LC   STN Files:   AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
       CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU,
       DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT,
       ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA,
       MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM*, PIRA, PROMT, PS,
       RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2,
       USPATFULL, VTB
         (*File contains numerically searchable property data)
     Other Sources:   DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)


   Et
    |
Et—N—Et


**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

           22022 REFERENCES IN FILE CA (1907 TO DATE)
             990 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
           22068 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)


=>

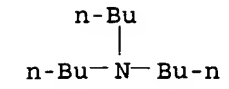
=> e tributylamine/cn
E1            1     TRIBUTYLALUMINUM/CN
E2            1     TRIBUTYLALUMINUM DIMER/CN
E3            1 --> TRIBUTYLAMINE/CN
E4            1     TRIBUTYLAMINE 2,4-DINITROPHENYLATE/CN
E5            1     TRIBUTYLAMINE 2,6-DICHLOROBENZOATE/CN
E6            1     TRIBUTYLAMINE BISULFITE/CN
E7            1     TRIBUTYLAMINE COMPD. WITH BORON TRICHLORIDE (1:1)/CN
E8            1     TRIBUTYLAMINE CONJUGATE ACID/CN
E9            1     TRIBUTYLAMINE DECANOATE/CN
E10           1     TRIBUTYLAMINE FORMATE/CN
E11           1     TRIBUTYLAMINE HEXAFLUOROPHOSPHATE/CN
E12           1     TRIBUTYLAMINE HEXAFLUOROSILICATE/CN

=> s e3
L4            1 TRIBUTYLAMINE/CN

=> d l4

L4   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   102-82-9  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   1-Butanamine, N,N-dibutyl- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Tributylamine (7CI, 8CI)
OTHER NAMES:
CN   N,N-Dibutyl-1-butanamine
CN   Tri-n-butylamine
CN   Tris-n-butylamine
FS   3D CONCORD
DR   168153-19-3
MF   C12 H27 N
CI   COM
LC   STN Files:   AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
```

CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*,
DIPPR*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB,
MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*,
SPECINFO, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4123 REFERENCES IN FILE CA (1907 TO DATE)
186 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4129 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	28.77	28.98

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FILE COVERS 1907 - 27 Sep 2005 VOL 143 ISS 14
FILE LAST UPDATED: 26 Sep 2005 (20050926/ED)

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This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s l1/prep
          1947 L1
       3362109 PREP/RL
L5         257 L1/PREP
                 (L1 (L) PREP/RL)

=> s l5 and l2
          5473 L2
L6          25 L5 AND L2

=> s l6 and (l3 or l4)
         22068 L3
```

```
          4129 L4
L7           1 L6 AND (L3 OR L4)

=> d l7 ibib ab

L7   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2004:161962  CAPLUS
DOCUMENT NUMBER:          140:219729
TITLE:                    Hydrofluorination process for the manufacture of
                          pentafluoroethane from tetrafluoroethylene and
                          hydrofluoride salts of organic amines
INVENTOR(S):              Piepho, Eberhard; Wilmet, Vincent; Buyle, Olivier
PATENT ASSIGNEE(S):       Solvay S. A., Belg.
SOURCE:                   Fr. Demande, 11 pp.
                          CODEN: FRXXBL
DOCUMENT TYPE:            Patent
LANGUAGE:                 French
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     FR 2843749            A1    20040227    FR 2002-10595           20020823
     FR 2843749            B1    20041001
     WO 2004018394         A2    20040304    WO 2003-EP10083         20030822
     WO 2004018394         A3    20040422
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1534656            A2    20050601    EP 2003-750519          20030822
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.:                        FR 2002-10595       A  20020823
                                              WO 2003-EP10083     W  20030822
AB   A hydrofluorination process is described for the manufacture of
     pentafluoroethane from tetrafluoroethylene and hydrofluoride salts of organic
     amines (e.g., Et3N-2.0 HF) at >100° but ≤160°.
REFERENCE COUNT:          2     THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> d his

     (FILE 'HOME' ENTERED AT 10:58:53 ON 27 SEP 2005)

     FILE 'REGISTRY' ENTERED AT 10:59:05 ON 27 SEP 2005
                E PENTAFLUOROETHANE/CN
L1            1 S E3
                E TETRAFLUOROETHYLENE/CN
L2            1 S E3
                E TRIETHYLAMINE/CN
L3            1 S E3
                E TRIBUTYLAMINE/CN
L4            1 S E3

     FILE 'CAPLUS' ENTERED AT 11:03:03 ON 27 SEP 2005
L5          257 S L1/PREP
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L6            25 S L5 AND L2
L7             1 S L6 AND (L3 OR L4)

=> s l6 not l7
L8            24 L6 NOT L7

=> d l8 ibib ab 1-24

L8   ANSWER 1 OF 24  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2004:182753  CAPLUS
DOCUMENT NUMBER:          140:201451
TITLE:                    Cobalt-substituted chromium oxide compositions, their
                          preparation, and their use as catalysts and catalyst
                          precursors
INVENTOR(S):              Nappa, Mario J.; Rao, Velliyur Nott Mallikarjuna;
                          Rosenfeld, David H.; Subramoney, Shekhar; Subramanian,
                          Munirpallam A.; Sievert, Allen C.
PATENT ASSIGNEE(S):       E.I. du Pont de Nemours and Company, USA
SOURCE:                   PCT Int. Appl., 68 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     --------------       ----   --------    --------------------    --------
     WO 2004018093         A2    20040304    WO 2003-US26326         20030821
     WO 2004018093         A3    20040422
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1539347            A2    20050615    EP 2003-793281          20030821
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
PRIORITY APPLN. INFO.:                        US 2002-405220P     P  20020822
                                              WO 2003-US26326     W  20030821
AB   A crystalline α-chromium oxide where 0.05-6 atom% of the chromium atoms
     in the α-chromium oxide lattice are replaced by trivalent cobalt
     (Co+3) atoms is disclosed.  Also disclosed is a chromium-containing catalyst
     composition comprising as a chromium-containing component the crystalline
     cobalt-substituted α-chromium oxide; and a method for preparing a
     composition comprising the crystalline cobalt-substituted α-chromium oxide.
     The method involves (a) co-precipitating a solid by adding ammonium hydroxide
to
     an aqueous solution of a soluble cobalt salt and a soluble trivalent chromium
salt that
     contains ≥3 mol of nitrate/mol of chromium in the solution and has a
     cobalt concentration 0.05-6 mol% of the total concentration of cobalt and
chromium in
     the solution; and after at least three moles of ammonium per mol of chromium
     in the solution has been added to the solution, (b) collecting the
co-precipitated
     solid formed in (a); (c) drying the collected solid; and (d) calcining the
     dried solid.  Also disclosed is a chromium-containing catalyst composition
     comprising a chromium-containing component prepared by treating the crystalline
     cobalt-substituted -chromium oxide with a fluorinating agent; and a
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process for changing the fluorine distribution (i.e., content and/or arrangement) in a hydrocarbon or halogenated hydrocarbon in the presence of a catalyst. The process involves using as the catalyst a composition comprising the crystalline cobalt-substituted α-chromium oxide and/or the treated cobalt-substituted α-chromium oxide.

L8 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:491153 CAPLUS
DOCUMENT NUMBER: 139:53458
TITLE: Thermal decomposition of fluoroform and chlorodifluoromethane into fluoroolefins and fluorinated alkanes
INVENTOR(S): Rao, Velliyur Nott Mallikarjuna; Gelblum, Peter Gideon; Noelke, Charles Joseph; Herron, Norman
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2003051802	A1	20030626	WO 2002-US40332		20021218
W: CN, JP					
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR					
US 2003166981	A1	20030904	US 2002-320143		20021216
US 6806396	B2	20041019			
EP 1463698	A1	20041006	EP 2002-794280		20021218
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, CY, TR, BG, CZ, EE, SK					
JP 2005513064	T2	20050512	JP 2003-552693		20021218
PRIORITY APPLN. INFO.:			US 2001-341640P	P	20011218
			WO 2002-US40332	W	20021218

AB The co-pyrolysis of fluoroform and chlorodifluoromethane forms a mixture of useful fluoroolefin and fluoroalkanes, notably, tetrafluoroethylene and hexafluoropropylene, and CF3CHF2 and CF3CHFCF3, resp.
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:730285 CAPLUS
DOCUMENT NUMBER: 137:249497
TITLE: Process for producing fluorinated aliphatic compounds by pyrolysis of perfluorocarboxylic acids and their halides and esters
INVENTOR(S): Igumnov, Sergei Mikhailovich; Lekontseva, Galina Ivanovich
PATENT ASSIGNEE(S): Zakrytoe Aktsionernoe Obshchestvo "Altyrskaya Bumazhnaya Fabrika", Russia
SOURCE: Jpn. Kokai Tokkyo Koho, 29 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002275106	A2	20020925	JP 2001-72660	20010314
US 2002177742	A1	20021128	US 2001-808410	20010314
US 6664431	B2	20031216		

EP 1285904 A1 20030226 EP 2001-116701 20010717
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRIORITY APPLN. INFO.: JP 2001-72660 A 20010314

AB The pyrolysis is carried out in the presence of a catalyst comprising a carrier most preferably chosen among active carbon, MgO, CaO, BaO, ZnO, Al2O3, NiO, and SiO2 promoted with alkali metal halides selected from the series comprising fluorides, chlorides, bromides, iodides of sodium, potassium, rubidium, cesium at .apprx.100-450° to prepare fluorinated aliphatic compds. comprising perfluoroolefins, polyfluoroolefins and their derivs., and optionally, in the presence addnl. of HF to form fluorinated aliphatic compds. comprising polyfluoroalkanes and their derivs. Thus, pyrolysis of perfluorovaleric acid Me ester using SiO2/KF as catalyst at 240° gave 95.1% perfluoro-2-butene.

L8 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:539626 CAPLUS
DOCUMENT NUMBER: 137:95529
TITLE: Process for preparing and purifying octafluoropropane
INVENTOR(S): Horiba, Minako; Suzuki, Yasuhiro
PATENT ASSIGNEE(S): Showa Denko K.K., Japan
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055457	A2	20020718	WO 2002-JP147	20020111
WO 2002055457	A3	20030220		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002212116	A2	20020731	JP 2001-6458	20010115
EP 1351908	A2	20031015	EP 2002-729557	20020111
EP 1351908	B1	20050720		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
RU 2245317	C2	20050127	RU 2002-127780	20020111
AT 299849	E	20050815	AT 2002-729557	20020111
US 2004047785	A1	20040311	US 2002-221447	20020912

PRIORITY APPLN. INFO.:
JP 2001-6458 A 20010115
US 2001-264320P P 20010129
WO 2002-JP147 W 20020111

AB A process for purifying octafluoropropane comprises contacting a crude octafluoropropane containing impurities with an impurity decomposing agent at elevated temperature and then with an adsorbent to substantially remove the impurities from the crude octafluoropropane. The purified octafluoropropane is substantially free of impurities and therefore, can be used as an etching or cleaning gas in the production of semiconductor devices and the like. Thus, hexafluoroproene is treated with CoF3 to give octafluoroporpane which is treated with γ-FeOOH-Ca(OH)2 (3:7) at 300° for 3 h, followed by absorption on MSC-5A for 1h at 60° and 7 h at 160° to give octafluoropropane free of impurities.

L8 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:428846 CAPLUS
DOCUMENT NUMBER: 137:7788
TITLE: Separation of hydrogen halide from halogenated organic compounds
INVENTOR(S): Low, Robert Elliott; McCarthy, John Charles; Draper, Lee Colin
PATENT ASSIGNEE(S): Ineos Fluor Holdings Limited, UK
SOURCE: PCT Int. Appl., 37 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002044117	A1	20020606	WO 2001-GB5302	20011130
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002020854	A5	20020611	AU 2002-20854	20011130
EP 1337500	A1	20030827	EP 2001-998524	20011130
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004514641	T2	20040520	JP 2002-546487	20011130
US 2004022720	A1	20040205	US 2003-415697	20030430
PRIORITY APPLN. INFO.:			GB 2000-29208 A	20001130
			WO 2001-GB5302 W	20011130

OTHER SOURCE(S): MARPAT 137:7788
AB A process for separating a hydrogen halide from a mixture comprising one or more halogenated organic compds. and a hydrogen halide, comprises the steps of (1) contacting the mixture with an amine hydrohalide solvent and (2) separating the organic compds. from the amine hydrohalide solvent.
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:593301 CAPLUS
DOCUMENT NUMBER: 135:154358
TITLE: Method for purifying hexafluoroethane contaminated with C2 hydrofluorocarbons by fluorination in the presence of zeolites
INVENTOR(S): Ohno, Hiromoto; Nakajo, Tetsuo; Ohi, Toshio; Arai, Tatsuharu
PATENT ASSIGNEE(S): Showa Denko K.K., Japan
SOURCE: U.S., 6 pp., Cont.-in-part of U.S. Ser. No. 1,536, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6274782	B1	20010814	US 2000-523966	20000313
JP 10287595	A2	19981027	JP 1997-98891	19970416

PRIORITY APPLN. INFO.: JP 1997-98891 A 19970416
US 1997-1536 B2 19971231

AB Hexafluoroethane, prepared containing impurities of C2 hydrofluorocarbons, is contacted with fluorine in the presence of a zeolite catalyst, having a mean micropore size of 3.5-11 Å and a silicon/aluminum ratio of ≥1.5, thereby reducing the hydrofluorocarbon content to ≤10 ppm.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:300630 CAPLUS
DOCUMENT NUMBER: 128:323135
TITLE: Dehydrohalogenation processes and zeolite catalysts for the preparation of fluoroalkenes
INVENTOR(S): Cassel, Wendell Richard; Corbin, David Richard; Rao, V. N. Mallikarjuna
PATENT ASSIGNEE(S): E. I. Du Pont de Nemours & Co., USA
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5750808	A	19980512	US 1996-677063	19960709

PRIORITY APPLN. INFO.: US 1996-677063 19960709
OTHER SOURCE(S): MARPAT 128:323135

AB Partially halogenated ethanes C2HaClbFc (a = 1-4; b = 0-3; c = 1-5) are dehydrohalogenated over NaX and CsY zeolites, producing fluoroalkenes C2Ha-1Clb-1Fc and C2Ha-1ClbFc-1. Selective reaction of one isomer from a mixture of two isomers is also described as a means of purification of the relatively unreactive isomer. Perfluorocyclobutane is also prepared by contacting CHF2CClF2 with NaX and CsY zeolites.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:511735 CAPLUS
DOCUMENT NUMBER: 127:108701
TITLE: Synthesis of tetrafluoroethylene and pentafluoroethane from chlorodifluoromethane
INVENTOR(S): Schirmann, Jean-Pierre; Hub, Serge; Lantz, Andre; Lacroix, Eric
PATENT ASSIGNEE(S): Elf Atochem S.A., Fr.; Schirmann, Jean-Pierre; Hub, Serge; Lantz, Andre; Lacroix, Eric
SOURCE: PCT Int. Appl., 14 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9721655	A1	19970619	WO 1996-FR1960	19961209
W: CA, CN, JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
FR 2742434	A1	19970620	FR 1995-14796	19951213

PRIORITY APPLN. INFO.: FR 1995-14796 A 19951213
OTHER SOURCE(S): CASREACT 127:108701

AB Chlorodifluoromethane was pyrolyzed in the presence of pentafluoroethane

to give tetrafluoroethylene which was then reacted with HF to produce pentafluoroethane in high yield and selectivity. A process flow diagram is presented.

L8 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:335995 CAPLUS
DOCUMENT NUMBER: 125:10177
TITLE: Process for preparing pentafluoroethane
INVENTOR(S): Trukshin, Igor G.; Sheremetev, Sergej K.; Barabanov, Valerij G.; Temchenko, Viktor G.; Uklonskij, Igor P.; Denisenkov, Vladimir F.
PATENT ASSIGNEE(S): Tovarishchestvo s Ogranichennoj Otvetstvennostyu "Nauchno-Tekhnicheskaya Firma "Komkon", Russia
SOURCE: Russ. From: Izobreteniya 1995, (33), 181.
CODEN: RUXXE7
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2049085	C1	19951127	RU 1993-13884	19930317
PRIORITY APPLN. INFO.:			RU 1993-13884	19930317

AB CF3CHF2 is prepared by gas-phase hydrofluorination of CF2:CF2 and/or C2HClF4 with excess (0.7-37 mol equiv) HF at 310-475°, in the presence of a stationary metal-containing catalyst [especially Cr Mg fluoride, or Cr on Al2O3], with a contact time of 0.5-20 s. The reaction may take place in the presence of other lower halohydrocarbons from the pyrolytic decomposition of CHF2Cl.

L8 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:977970 CAPLUS
DOCUMENT NUMBER: 124:30465
TITLE: Technological procedures for purification of refrigerants and fluoromonomers
AUTHOR(S): Nikiforov, B. L.; Barabanov, V. G.
CORPORATE SOURCE: RNTs "Prikl. Khim.", St. Petersburg, Russia
SOURCE: Zhurnal Prikladnoi Khimii (Sankt-Peterburg) (1995), 68(7), 1173-7
CODEN: ZPKHAB; ISSN: 0044-4618
PUBLISHER: Nauka
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB The recovery of refrigerants and fluoromonomers from reaction mixts. is discussed. Methods are proposed for separation of azeotropic mixts. of fluoro compds., removal of HF from reaction mixts., and deep purification of the products from toxic substances.

L8 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:946792 CAPLUS
DOCUMENT NUMBER: 123:339128
TITLE: Process for the preparation of perhalofluorinated butanes and hexanes
INVENTOR(S): Nappa, Mario Joseph; Sievert, Allen Capron
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9516656	A1	19950622	WO 1994-US14370		19941213
W: JP					
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
EP 734368	A1	19961002	EP 1995-907941		19941213
EP 734368	B1	20010829			
R: DE, ES, FR, GB, IT, NL					
ES 2161862	T3	20011216	ES 1995-907941		19941213
US 6066768	A	20000523	US 1996-738117		19961025
US 6207869	B1	20010327	US 2000-519791		20000307
PRIORITY APPLN. INFO.:			US 1993-166432	A	19931214
			WO 1994-US14370	W	19941213
			US 1996-738117	A3	19961025

OTHER SOURCE(S): MARPAT 123:339128

AB Perhalofluorobutanes and perhalofluorohexanes are prepared by reacting tetrafluoroethylene or chlorotrifluoroethylene with perhalofluoroethanes containing 2-4 nonfluorine halogen atoms and 2-4 fluorine substituents in the presence of a polyvalent metal halide such as an AlCl3 or aluminum chlorofluoride as catalyst.

L8 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:584369 CAPLUS
DOCUMENT NUMBER: 123:9062
TITLE: Preparation of monohydrohalogenoethanes
INVENTOR(S): Morikawa, Shinsuke; Okamoto, Shuichi; Usami, Yoko; Tatematsu, Shin; Yokoyama, Takaaki
PATENT ASSIGNEE(S): Ag Technology Corp, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07076535	A2	19950320	JP 1993-223183	19930908
PRIORITY APPLN. INFO.:			JP 1993-223183	19930908

OTHER SOURCE(S): CASREACT 123:9062; MARPAT 123:9062

AB CF3CHXY (X = F, Cl; Y = F, Cl, Br, iodo) are prepared by addition reaction of more than equivalent mol. of HF to CF2:CXY (X, Y = same as above) in gas phases at 20-400° in the presence of oxyhalogenated Al catalysts prepared by treatment of activated alumina containing 70-90 volume% pores having average pore size 40-500 Å. Activated alumina was treated with N and CCl2F2 at 250° for 12 h to prepare a catalyst. CF2:CF2 and HF were passed through the catalyst at 200° to give CF3CHF2 with 89.8% selectivity.

L8 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1995:389806 CAPLUS
DOCUMENT NUMBER: 122:160066
TITLE: Process for the addition of hydrogen fluoride to haloalkenes
INVENTOR(S): Franz, Raimund; Siegemund, Guenter
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 634383	A1	19950118	EP 1994-110535	19940706
EP 634383	B1	19971105		
R: BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, PT, SE				
DE 4323264	A1	19950119	DE 1993-4323264	19930712
DE 4339539	A1	19950524	DE 1993-4339539	19931119
ES 2111211	T3	19980301	ES 1994-110535	19940706
CA 2127732	AA	19950113	CA 1994-2127732	19940711
CA 2127732	C	20041207		
JP 07149678	A2	19950613	JP 1994-158956	19940711
JP 3592367	B2	20041124		
US 5847245	A	19981208	US 1996-723462	19961009
US 5969199	A	19991019	US 1998-93534	19980608

PRIORITY APPLN. INFO.:
DE 1993-4323264 A 19930712
DE 1993-4339539 A 19931119
US 1994-271838 B1 19940707
US 1995-480507 B1 19950607
US 1996-723462 A1 19961009

OTHER SOURCE(S): CASREACT 122:160066; MARPAT 122:160066

AB The title process comprises treating R1CF:R2R3 [R1 = F, CF3, CF2R4; R2 = H, halo, CF3; R3 = H, F, CF3, (halo)alkyl; R4 = (halo)alkyl] with B.nHF (B = N-containing organic base; n is a whole or fractional number ≤4).

L8 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1994:482498 CAPLUS
DOCUMENT NUMBER: 121:82498
TITLE: Preparing process for hydrofluoric halocarbon and hydrofluoric hydrocarbon
INVENTOR(S): Hu, Changming
PATENT ASSIGNEE(S): Shanghai Organic Chemistry Institute, Chinese Academy of Sciences, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 8 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1080630	A	19940112	CN 1992-108469	19920619
CN 1037960	B	19980408		

PRIORITY APPLN. INFO.: CN 1992-108469 19920619
OTHER SOURCE(S): CASREACT 121:82498; MARPAT 121:82498

AB CmWgClxBryIz are prepared via catalytic addition reaction of CmWnClxBryIz [W = F, H; m = n-6; n+x+y+Z ≤2; m, n, x, y, z = 0-2; m, g ≥2] with HF at 10-200° for 0.5-1 h. Thus, Raney Ni (preparation given) was used for the addition reaction of CF2:CF2 with HF at 110° for 4 h to give 100% CF3CHF2 of 99.0% purity.

L8 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:580896 CAPLUS
DOCUMENT NUMBER: 119:180896
TITLE: Laser-induced chemistry in silane-hexafluoroacetone mixtures for production of novel silicon/carbon/fluorine/oxygen and carbon/fluorine/oxygen materials
AUTHOR(S): Pola, J.; Papouskova, Z.; Bastl, Z.; Tlaskal, J.
CORPORATE SOURCE: Inst. Chem. Process Fundam., Prague, 165 02, Czech.
SOURCE: Applied Physics B: Photophysics and Laser Chemistry (1993), B56(5), 313-19
CODEN: APPCDL; ISSN: 0721-7269
DOCUMENT TYPE: Journal

LANGUAGE: English

AB Chemical reactions induced by CO2-laser radiation in mixts. of silane and hexafluoroacetone afford various gaseous silicon- and carbon-containing compds. and result in deposition of microstructures of carbon (C/F/O and Si/C/O/F materials). These products are suggested to be formed by a variety of exothermic reactions initiated through SiH4-photosensitized decomposition of hexafluoroacetone. Silane is shown to be a very potent reagent for the reduction of C-F bonds.

L8 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1993:263712 CAPLUS
DOCUMENT NUMBER: 118:263712
TITLE: Product distributions in UV and IR laser chemistry of fluoroiodoalkanes [CnF2n+1I (n = 1, 2)] in the presence of hydrogen
AUTHOR(S): Nayak, A. K.; Sarkar, S. K.; Mittal, J. P.
CORPORATE SOURCE: Multidiscip. Res. Sect., Bhabha At. Res. Cent., Bombay-400, India
SOURCE: Journal of Photochemistry and Photobiology, A: Chemistry (1993), 71(1), 1-7
CODEN: JPPCEJ; ISSN: 1010-6030
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The UV and IR photolysis of trifluoroiodomethane and pentafluoroiodoethane in the presence of H2 were studied. The products were quant. analyzed by IR spectrophotometry and temperature-programmed gas chromatog. The photolysis product distribution using different exptl. parameters was obtained. The difference between the product distributions in IR multiphoton dissociation (IRMPD) and conventional UV photolysis was explained in terms of the various competing rate consts. and the concentration of the perfluoroalkyl radicals generated in the irradiated volume

L8 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1991:142640 CAPLUS
DOCUMENT NUMBER: 114:142640
TITLE: Purification of saturated halocarbons by hydrogenation of olefinic impurities
INVENTOR(S): Fernandez, Richard Edward; Rao, V. N. Mallikarjuna
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9008750	A1	19900809	WO 1990-US9	19900103
W: AU, BR, JP, KR, SU				
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE				
US 5001287	A	19910319	US 1989-305442	19890202
AU 9050224	A1	19900824	AU 1990-50224	19900103
AU 624480	B2	19920611		
BR 9007057	A	19911112	BR 1990-7057	19900103
EP 456691	A1	19911121	EP 1990-902558	19900103
EP 456691	B1	19940622		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE				
JP 04503064	T2	19920604	JP 1990-502806	19900103
CA 2009064	AA	19900802	CA 1990-2009064	19900131
CN 1044647	A	19900815	CN 1990-100750	19900202
CN 1021966	B	19930901		
ZA 9000803	A	19911030	ZA 1990-803	19900202

PRIORITY APPLN. INFO.: US 1989-305442 A 19890202

WO 1990-US9 A 19900103

OTHER SOURCE(S): MARPAT 114:142640

AB Saturated fluorohalocarbons and/or fluorohalohydrocarbons containing olefinic impurities are purified by catalytic hydrogenation for converting the olefinic impurities into a hydrogenated form. Thus, impure CF3CH2F (HFC 134a) (I) containing 900 ppm CHCl:CF2(FC 1122) (II) was passed over 6.65 g 0.5% Pd/C packed in a stainless steel U-tube, together with H, at 150° for 8.2 h to give 99.6% I containing <10 ppm II, while no CH2ClCHF2 (HFC-142) was detected.

L8 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1990:630778 CAPLUS

DOCUMENT NUMBER: 113:230778

TITLE: Purification of saturated halocarbons

INVENTOR(S): Fernandez, Richard E.

PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA

SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 370688	A1	19900530	EP 1989-311839	19891115
EP 370688	B1	19940713		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
CA 2003039	AA	19900522	CA 1989-2003039	19891115
ES 2056229	T3	19941001	ES 1989-311839	19891115
IN 171615	A	19921128	IN 1989-CA949	19891116
JP 02223534	A2	19900905	JP 1989-300949	19891121
SU 1836312	A3	19930823	SU 1989-4742533	19891121
AU 8945402	A1	19900531	AU 1989-45402	19891122
AU 626349	B2	19920730		
BR 8905864	A	19900619	BR 1989-5864	19891122
CN 1043118	A	19900620	CN 1989-109550	19891122
ZA 8908910	A	19910731	ZA 1989-8910	19891122
US 5449845	A	19950912	US 1990-591221	19901002
US 5449846	A	19950912	US 1990-591222	19901002
PRIORITY APPLN. INFO.:			US 1988-275063 A	19881122
			US 1990-478436 A1	19900302
			US 1990-487436 B1	19900302

OTHER SOURCE(S): MARPAT 113:230778

AB Saturated fluorohalocarbons and/or fluorohalohydrocarbons are purified by contact with Ag2O, Co2O3, CuO, MnO2 or their mixts. CF3CH2F (I) containing 850 ppm CF2:CHCl (II) was passed over a granular mixture of 85.2 weight% MnO2 on 14.8 weight% CuO of <3% moisture content to give pure I containing 3.3 ppm II.

L8 ANSWER 19 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1987:467845 CAPLUS

DOCUMENT NUMBER: 107:67845

TITLE: Infrared multiphoton dissociation of heptafluoropropane

AUTHOR(S): Kato, Shuji; Makide, Yoshihiro; Takeuchi, Kazuo; Tominaga, Takeshi

CORPORATE SOURCE: Fac. Sci., Univ. Tokyo, Tokyo, 113, Japan

SOURCE: Journal of Physical Chemistry (1987), 91(16), 4278-84
CODEN: JPCHAX; ISSN: 0022-3654

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The dissociation yield and branching ratio in CO2-laser-induced multiphoton dissociation (MPD) of CF3CF2CHF2 were studied as a function of irradiation

frequency (979.7, 1037.4, and 1081.1 cm-1) and laser fluence (focal fluence < 20 J/cm2). Br was successfully used to show the dissociation mechanisms by scavenging a number of primary and secondary dissociation fragments produced in the MPD. At lower laser fluences the distributions of scavenged products were the same regardless of irradiation frequencies. The primary dissociation of CF3CF2CHF2 proceeded mainly via the higher activation energy channels (i.e., C-C ruptures: CFoCF2CHF2 → C2F5 + CHF2, and CF3CF2CHF2 → CF3 + C2HF4) rather than via HF elimination (CF3CF2CHF2 → C3F6 + HF). The observed branching ratio between the 2 C-C rupture channels (≈2:1) agreed with the results obtained by RRKM calcn. A marked difference in product distribution with respect to the irradiation frequency was observed at higher laser fluences. This indicates that the secondary photolysis of primarily produced radicals within the laser pulse occurred significantly at higher fluences (i.e., C2F5 → CF3 + CF2, CHF2 → CF2 + H, CF3 → CF2 + F, and C2HF4 → CF2 + CHF2), depending strongly upon the irradiation frequencies.

L8 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1987:101722 CAPLUS
DOCUMENT NUMBER: 106:101722
TITLE: Studies on fluoroalkylation and fluoroalkoxylation. Part 10. Electron-transfer-induced reactions of perfluoroalkyl iodides and the dialkyl malonate anion and β-fragmentation of the halotetrafluoroethyl radical
AUTHOR(S): Chen, Qing Yun; Qiu, Zai Ming
CORPORATE SOURCE: Shanghai Inst. Org. Chem., Acad. Sin., Shanghai, Peop. Rep. China
SOURCE: Journal of Fluorine Chemistry (1986), 31(3), 301-17
CODEN: JFLCAR; ISSN: 0022-1139
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:101722
AB RCF2CF2I [R = F, Cl(CF2)2, Cl(CF2)4, [(morpholinosulfonyl)oxy]tetrafluoroethyl] react with NaCH(CO2R1)2 (R1 = Me, Et) in DMF to give RCF2C[CH(CO2R)2]:C(CO2R1)2, RCF2CF2H, and R1O2CCH2CH2CO2R1. The radical is accelerated by UV and partly suppressed by p-(O2N)2C6H4. Diallyl ether can trap the radical intermediates to afford five-membered rings I [R2 = iodo, CH(CO2R1)2]. In the case of RCF2CF2I (R = Cl, iodo) the same reaction mainly yielded C2F4 and R1O2CCH2CH2CO2R1. The radical intermediate ClCF2CF2· can also be trapped by diallyl ether to yield THF derivs. All these results can be rationalized in terms of the SRN1 mechanism.

L8 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1982:535550 CAPLUS
DOCUMENT NUMBER: 97:135550
TITLE: Separation of isotopes
INVENTOR(S): Hackett, Peter A.; Willis, Clive
PATENT ASSIGNEE(S): National Research Council of Canada, Can.
SOURCE: Can., 8 pp.
CODEN: CAXXA4
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1125230	A1	19820608	CA 1980-346586	19800214
PRIORITY APPLN. INFO.:			US 1979-64085 A	19790806

AB A method of isotope separation is described, comprising a gaseous mixture of the

isotope with a laser beam at a 1st selected wavelength and irradiating the product formed with a laser beam at a 2nd selected wavelength to produce a final product highly enriched in the desired isotope. For example, CF3COCF3 [684-16-2] gas is irradiated to form CF3 and CO, then Br2 is added to form CF3Br and Br. The CF3Br [75-63-8] is then irradiated to form CF3 which reacts with CF3 from the 1st step to form C2F6 enriched in 13C.

L8 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1981:586620 CAPLUS
DOCUMENT NUMBER: 95:186620
TITLE: High purity partially-fluorinated ethanes
INVENTOR(S): Von Halasz, Sigmar Peter
PATENT ASSIGNEE(S): Hoechst A.-G. , Fed. Rep. Ger.
SOURCE: Ger. Offen., 23 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3009760	A1	19810924	DE 1980-3009760	19800314
EP 36123	A1	19810923	EP 1981-101502	19810303
EP 36123	B1	19830622		
R: BE, DE, FR, GB, IT, NL				
ES 500177	A1	19820116	ES 1981-500177	19810306
BR 8101512	A	19810915	BR 1981-1512	19810313
JP 56142222	A2	19811106	JP 1981-35492	19810313
JP 04027218	B4	19920511		
CA 1196345	A1	19851105	CA 1981-372965	19810313
PRIORITY APPLN. INFO.:			DE 1980-3009760 A	19800314

AB CF3CHXY (X = H, F; Y = H, F, Cl, Br, I) were prepared by addition of HF to the corresponding ethylene in the presence of chromoxy fluoride at 20-200°, especially 60-180°. Thus prepared were CF3Me, CF3CH2F, CF3CH2Br, CF3CH2Cl, CF3CH2I, CF3CHClF, and CF3CHF2.

L8 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1979:160062 CAPLUS
DOCUMENT NUMBER: 90:160062
TITLE: Gas phase radiation chemistry of pentafluoroethyl iodide
AUTHOR(S): Hsieh, Tacheng; Hanrahan, Robert J.
CORPORATE SOURCE: Dep. Chem., Univ. Florida, Gainesville, FL, USA
SOURCE: Radiation Physics and Chemistry (1978), 12(1-2), 51-8
CODEN: RPCHDM; ISSN: 0146-5724
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The γ-radiolysis of gaseous C2F5I was studied at 50 torr (6.6 + 103Pa) and 24° both pure and with added HI. In all, 17 products were formed in the radiolysis. For the pure system the major radiolytic products and their initial G values are I2, 0.91; C2F6, 0.28; C2F4, 0.78; C3F8, 0; n-C4F10, 0.42; CF3I, 0.18; CF2I2, 0.18; CF2ICF2I, 0.11; and CF3CFI2, 0.052. The addition of approx. 5% HI sharply increased the G values of I2 (from 0.91 to 2.84) and the initial G value of CF3I (from 0.18 to 2.50), while decreasing other product yields by 50-100%. In addition, CF3H, C2F5H, CF2IH, and H2 were also formed in the HI-added system. Results are discussed in terms of ionic fragmentation and ion-mol. chemical of C2F5I, as observed in a parallel investigation, as well as postulated bond-rupture processes of neutral excited species and subsequent displacement and combination reactions.

L8 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1972:564009 CAPLUS
DOCUMENT NUMBER: 77:164009
TITLE: Hydrofluorination catalyst
INVENTOR(S): Paucksch, Heinrich; Massonne, Joachim; Derleth, Helmut
PATENT ASSIGNEE(S): Kali-Chemie A.-G.
SOURCE: Ger. Offen., 21 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2105748	A	19720831	DE 1971-2105748	19710208
NL 7200184	A	19720810	NL 1972-184	19720106
FR 2124239	A5	19720922	FR 1972-1579	19720118
FR 2124239	B1	19751024		
BE 778300	A1	19720516	BE 1972-113067	19720120
US 3836479	A	19740917	US 1972-223006	19720202
GB 1357246	A	19740619	GB 1972-5372	19720204
IT 947349	A	19730521	IT 1972-20285	19720207

PRIORITY APPLN. INFO.: DE 1971-2105748 A 19710208

AB Highly active catalysts containing pseudoboehmite, H_3BO_3, and optionally Fe_2O_3 for addition reactions of HF to olefins, acetylene, or exchange of Cl with F, were prepared Thus, a catalyst was prepared by pasting a mixture of 1.2 kg powdered pseudoboehmite (sp. surface 180 m^2/g) and 0.18 kg powdered H_3BO_3 with 2 aqueous HNO_3 and pressing to give 3 mm thick rods (length 10 mm and bulk d. 0.68kg/1). The catalyst was activated 7 hr at 350° in a flowing mixture of 2 moles HF and 1 mole N per hr in a Ni tube. Hydrofluorination of C_2H_2 by passing 121. C_2H_2 and 27.5 g HF per hr over 0.46 kg of the catalyst at contact time 16.0 sec and maximum 262° gave 99.4 $MeCHF_2$.